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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,689	04/16/2002	Nobuhiro Kobayashi	22001	8300

24932 7590 09/25/2003

LAW OFFICE OF LAWRENCE E LAUBSCHER, JR
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ANNAPOLIS, MD 21403

EXAMINER

CASTRO, ARNOLD

ART UNIT	PAPER NUMBER
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3747

DATE MAILED: 09/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/031,689

Applicant(s)

KOBAYASHI ET AL.

Examiner

Arnold Castro

Art Unit

3747

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6, 7.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over SASAKI et al Japan Patent No. 08-177597

SASAKI et al discloses an exhaust gas recirculation apparatus for an internal combustion engine mounted with a supercharger compressor disposed in an intake passage, comprising: a passage opening and closing device (33) that opens or closes an exhaust gas recirculation passage (31) communicating the exhaust the intake passage (9) on the downstream side of said compressor (7); a port opening and closing device (12) that opens or closes a port (13) formed on the intake passage (11) on the

Art. Unit: 3747

downstream side of said compressor (7); an operating condition detecting device (41, 42) that detects an engine operating condition; and a control unit (40) that incorporates a microcomputer therein, wherein said control unit judges whether or not the exhaust gas is to be recirculated based on the engine operating condition detected by said operating condition detecting device, and when it is judged that the exhaust gas is to be recirculated, performs a control to open said exhaust gas recirculation passage (33) by said passage opening and closing device and at the same time to open said port by said port opening and closing device. There is formed an intake air return passage (11) that returns the intake air taken out of said port (poppet valve) to the intake passage on the upstream side of said compressor.

However, SAKAKI et al does not expressly disclose a turbocharger or said port being controlled in a multi-stepwise manner based on the engine operating condition.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to substitute a turbocharger for the supercharger and a stepper motor EGR valve for the vacuum controlled EGR valve disclosed in SAKAKI et al. Applicant has not disclosed why a turbocharger in which a turbine is disposed in an exhaust passage or a stepper motor EGR valve provides any advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with a supercharger because the work on incoming gases is being done by the compressor and not the turbine and a vacuum controlled EGR valve which is equally controllable as a stepper motor EGR valve. Therefore, it would have been an

Art Unit: 3747

obvious matter of design choice to modify SAKAKI et al to obtain the invention as specified in claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Onodera et al. is a system having a turbocharger bypass on the exhaust side to regulate the downstream compressor pressure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Castro whose telephone number is (703) 305-0039. The examiner can normally be reached on 7:30am-5:00pm.

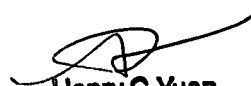
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuen Henry can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.



Arnold Castro
Examiner
Art Unit 3747

AC



Henry C. Yuen
Supervisory Patent Examiner
Group 3700